

AMENDMENT TO THE CLAIMS

1-29 (Cancelled)

30. (Currently Amended) A method of controlling a fluid delivery system based on pH data comprising the steps of:

measuring tissue pH data from a ph sensor positioned within a region of tissue of an organ;

determining if selected tissue pH data falls below a threshold level indicative of a tissue condition; and

controlling preservation fluid flow rate from an external source into the organ using a delivery system, fluid flow being directed through one or more of a plurality of fluid delivery paths in response to the determining step, the delivery system including a controller that controls the fluid flow rate.

31. (Currently Amended) The method of Claim 30 further comprising the step of ~~providing a~~ using the controller connected to the delivery system switch from a first fluid delivery path to a second fluid delivery path.

32. (Currently Amended) The method of Claim 30 wherein the step of controlling delivery of preservation fluid to a site further comprises the step of altering a flow rate of the fluid with ~~a~~ one of a plurality of valves.

33. (Original) The method of Claim 30 wherein the step of controlling flow further comprises the step of altering a temperature of a preservation fluid.

34. (Previously Presented) The method of Claim 30 wherein the step of controlling flow further comprises the step of altering a site of delivery of the fluid.

35. (Original) The method of Claim 30 wherein the step of controlling flow further comprises the step of directing the solution through a valve.

36. (Previously Presented) The method of Claim 30 wherein the method further comprises the step of displaying changes in a fluid control procedure.

37. (Previously Presented) The method of Claim 30 further comprising recording temperature data of the tissue and fluid pressure data.

38-39 (Cancelled)

40. (Previously Presented) The method of Claim 30 wherein the tissue is myocardial tissue.

41. (Currently Amended) The method of Claim 30 further comprising contacting the pH electrode to the tissue of a patient with a catheter.

42. (Currently Amended) A method of controlling a fluid delivery system based on pH data comprising the steps of:  
measuring tissue pH with a pH sensor positioned within a

region of tissue of an organ to provide pH data;

measuring temperature with a temperature sensor in the tissue to provide temperature data;

determining if selected tissue pH data falls below a threshold level indicative of a tissue condition; and

controlling a preservation fluid temperature and fluid flow rate from an external fluid source into the organ in response to the temperature data and the determining step with a delivery control system having a plurality of fluid flow paths into the organ including altering a fluid flow distribution along the fluid flow paths in response to measured temperature data and pH data.

43. (Currently Amended) The method of Claim 42 further comprising the step of ~~providing~~ using a controller connected to the delivery system to control temperature and flow rate of the fluid.

44. (Previously Presented) The method of Claim 42 wherein the step of controlling delivery of preservation fluid to a site further comprises the step of altering the flow rate of the fluid.

45. (Previously Presented) The method of Claim 42 wherein the step of controlling flow further comprises the step of altering a temperature of a preservation fluid.

46. (Previously Presented) The method of Claim 42 wherein the step of controlling flow further comprises the step of altering

the site of delivery of the fluid.

47. (Previously Presented) The method of Claim 42 wherein the step of controlling flow further comprises the step of directing the solution through a valve.

48. (Previously Presented) The method of Claim 42 wherein the method further comprises the step of displaying changes in a procedure.

49. (Previously Presented) The method of Claim 42 further comprising providing temperature and fluid pressure data.

50. (Previously Presented) The method of Claim 42 wherein the tissue is myocardial tissue.

51. (Currently Amended) The method of Claim 42 further comprising contacting the pH electrode to the tissue of a patient with a catheter.

52. (New) The method of claim 42 further comprising using a first fluid flow path with a catheter, a second fluid flow path with a cannula and a third fluid flow path with a needle, the paths being connected to the fluid source through a manifold.